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4	6,797,113	Use of thinnings and other low specific gravity wood for lyocell pulps method
5	6,751,959	Simple and compact low-temperature power cycle
6	6,745,088	Multi-variable matrix process control
7	6,686,040	Use of thinnings and other low specific gravity wood for lyocell products
8	6,686,039	Use of thinnings and other low specific gravity wood for lyocell pulps
9	6,685,856	Use of thinnings and other low specific gravity wood for lyocell products method
10	6,667,034	METHODS FOR REGULATING THE SPECIFIC LINEAGES OF CELLS PRODUCED IN A HUMAN HEMATOPOIETIC CELL CULTURE, METHODS FOR ASSAYING THE EFFECT OF SUBSTANCES ON LINEAGE-SPECIFIC CELL PRODUCTION, AND CELL COMPOSITIONS PRODUCED BY THESE CULTURES
11	6,551,514	Cyanide detoxification process
12	6,491,820	Method for the molecular destruction of waste-activated sludge using high electrical voltage
13	6,448,190	Method and apparatus for fabrication of integrated circuit by selective deposition of precursor liquid

14 6,442,515 Process model generation independent of application mode
15 6,442,512 Interactive process modeling system
16 6,415,276 Bayesian belief networks for industrial processes
17 6,403,748 Enhancing production of resin withing specifications
18 6,393,426 Method for modeling, storing and transferring data in neutral form
19 6,323,882 Method and systems for a graphical real time flow task scheduler
20 6,322,756 Effluent gas stream treatment system having utility for oxidation treatment of semiconductor manufacturing effluent gases
21 6,319,389 Recovery of copper values from copper ores
22 6,240,374 Further method of creating and rapidly searching a virtual library of potential molecules using validated molecular structural descriptors
23 6,234,318 Flotation and cyanidation process control
24 6,180,819 Process for producing butyl acrylate
25 6,113,788 Wastewater treatment process
26 6,093,211 Polymer property distribution functions methodology and simulators
27 5,990,343 Process for producing butyl acrylate
28 5,980,096 Computer-based system, methods and graphical interface for information storage, modeling and stimulation of complex systems
29 5,964,908 Closed loop energy conversion process
30 5,958,777 Device for determining CO.sub.2 and CO in a geologic sediment
31 5,914,441 Biocatalyzed anaerobic oxidation of metal sulfides for recovery of metal values
32 5,902,486 Method for controlling with precision a process for separating constituents of a mixture, in a simulated moving bed separation system
33 5,877,345 Process for producing butyl acrylate
34 5,853,588 Wastewater treatment process
35 5,842,213 Method for modeling, storing, and transferring data in neutral form
36 5,836,167 Method and apparatus for freezing large pipe
37 5,811,308 Method for determining petroleum characteristics of geologic sediments
38 5,733,455 Wastewater treatment process
39 5,711,770 Energy conversion system
40 5,705,572 Continuous process for making melt-processable optical grade ring-opened polycyclic olefin (co)polymers in a single-stage multi-zoned reactor
41 5,687,090 Polymer component characterization method and process simulation apparatus
42 5,672,194 Method and apparatus for extracting precious metals from their ores and the product thereof
43 5,666,297 Plant simulation and optimization software apparatus and method using dual execution models
44 5,658,524 Cellulose article manufacturing method
45 5,651,891 Wastewater treatment process
46 5,637,404 Reflective aluminum strip
47 5,580,391 Process for the thermo-chemical cleaning of storage tanks
48 5,571,489 Process for chromium recovery from aqueous solutions
49 5,478,414 Reflective aluminum strip, protected with fluoropolymer coating and a laminate of the

strip with a thermoplastic polymer

50 5,451,364 Cellulose food casing manufacturing method

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	PAT. NO.	Title
51	5,441,639	Convective electrohydrodynamic fluid membranes
52	5,439,992	Continuous process for making melt-processable optical grade ring-opened polycyclic (co)polymers in a single-stage multi-zoned reactor
53	5,427,993	Process for forming a homogeneous oxide solid phase of catalytically active material
54	5,355,685	Purification of refrigerant
55	5,336,450	Process to remove rare earth from IFR electrolyte
56	5,316,650	Electroforming of metallic glasses for dental applications
57	5,315,521	Chemical process optimization method
58	5,303,165	Standardizing and calibrating a spectrometric instrument
59	5,290,424	Method of making a shaped reflective aluminum strip, doubly-protected with oxide and fluoropolymer coatings
60	5,270,015	Apparatus for removing sulfur from sulfur containing gases
61	5,192,421	Integrated process for whole crude deasphalting and asphaltene upgrading
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63	5,159,562	Optimization of a plurality of multiple-fuel fired boilers using iterated linear programming
64	5,139,548	Gas liquefaction process control system
65	5,124,004	Distillation process for ethanol
66	5,073,351	Production of middle distillate range hydrocarbons by light olefin upgrading
67	5,065,336	On-line determination of polymer properties in a continuous polymerization reactor
68	5,047,221	Processes for removing sulfur from sulfur-containing gases

69 5,013,441 Biological nutrient removal with sludge bulking control in a batch activated sludge system
70 5,008,810 System for displaying different subsets of screen views, entering different amount of information, and determining correctness of input dependent upon current user input
71 4,974,816 Method and apparatus for biological processing of metal-containing ores
72 4,956,094 Enhanced phosphate removal from bod-containing wastewater
73 4,849,186 Production of middle distillate range hydrocarbons by light olefin upgrading
74 4,720,600 Production of middle distillate range hydrocarbons by light olefin upgrading
75 4,670,232 Recovery of amines from by-product chloride salts
76 4,652,270 Process for producing low-viscosity coal-water and lignite-water mixtures and compositions produced thereby
77 4,568,786 Production of lubricant range hydrocarbons from light olefins
78 4,547,612 Production of lubricant and/or heavy distillate range hydrocarbons by light olefin upgrading
79 4,375,980 Production of suspension fertilizers from orthophorphoric acid
80 4,294,624 Drying co-mingled carbohydrate solution and recycled product by dielectric heating
81 4,254,285 1-Hydroxymethyl-1-1-oxo prostane derivatives of the E and F series
82 4,254,036 1-Hydroxymethyl-1-oxo-prostane-derivatives of the E, A and F-series
83 4,194,965 Fluid catalytic cracking
84 4,170,597 1-Hydroxymethyl-1-oxo-prostane derivatives of the E.sub.2 series

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1 Modeling, simulation, sensitivity analysis, and optimization of hybrid systems
Paul I. Barton, Cha Kun Lee
October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: pdf(383.14 KB) Additional Information: full citation, abstract, references, index terms

Hybrid (discrete/continuous) systems exhibit both discrete state and continuous state dynamics which interact to such a significant extent that they cannot be decoupled and must be analyzed simultaneously. We present an overview of the work that has been done in the modeling, simulation, sensitivity analysis, and optimization of hybrid systems, paying particular attention to the interaction between discrete and continuous dynamics. A concise intuitive framework for hybrid system modeling is pres ...

Keywords: Hybrid automata, combined discrete/continuous simulation, consistent reinitialization, discontinuities, sensitivity analysis, state events, transitions

2 Parallel interval-Newton using message passing: dynamic load balancing strategies
Chao-Yang Gau, Mark A. Stadtherr
November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)**
Publisher: ACM Press
Full text available: pdf(296.07 KB) Additional Information: full citation, abstract, references, index terms

Branch-and-prune and branch-and-bound techniques are commonly used for intelligent search in finding all solutions, or the optimal solution, within a space of interest. The corresponding binary tree structure provides a natural parallelism allowing concurrent evaluation of subproblems using parallel computing technology. Of special interest here are techniques derived from interval analysis, in particular an interval-Newton/generalized-bisection procedure. In this context, we discuss issues of l ...

Keywords: branch-and-bound, branch-and-prune, global optimization, interval analysis, nonlinear equations, parallel computing

3 High-level power modeling, estimation, and optimization
Enrico Macii, Massoud Pedram, Fabio Somenzi

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**
Publisher: ACM Press
Full text available: pdf(172.43 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

In the past, the major concern of the VLSI designers werearea, performance, cost, and reliability.In recent years,however, this has changed and, increasingly, power is beinggiven comparable weight to area and speed.This is mainlydue to the remarkable success of personal computing devicesand wireless communication systems, which demandhigh-speed computation and complex functionality with lowpower consumption.In addition, there exists a strong pressurefor manufacturers of high-end products to keep ...

4 Batching annealing operations to optimize queueing times and furnance efficiency: a simulation model
Pierre Lefrançois, Pierre L'Espérance, Marc Turmel
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Publisher: IEEE Computer Society
Full text available: pdf(858.47 KB) Additional Information: full citation, references, index terms

5 Strategies for optimization of multiple-response simulation models
William E. Biles, James J. Swain
December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1**
Publisher: Winter Simulation Conference
Full text available: pdf(625.77 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper examines several procedures for optimizing simulation models having controllable input variables xi,i &equil; 1,...,n and yielding responses nj,j &equil; 1,...,m. This problem is often formulated as a constrained optimization problem, or it can be formulated in one of several multiple-objective formats, including goal programming. Whatever the mode of problem formulation, the optimization of multiple-response simulations can be approached ...

6 Application of a simulation optimization system for a continuous review inventory model
Jorge Haddock, Golgen Bengu
December 1987 **Proceedings of the 19th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(795.05 KB) Additional Information: full citation, references, citings, index terms

7 Cloth & deformable bodies: Estimating cloth simulation parameters from video
Kiran S. Bhat, Christopher D. Twigg, Jessica K. Hodgins, Pradeep K. Khosla, Zoran Popović, Steven M. Seitz
July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**
Publisher: Eurographics Association
Full text available: pdf(7.33 MB) Additional Information: full citation, abstract, references, citings

Cloth simulations are notoriously difficult to tune due to the many parameters that must be adjusted to achieve the look of a particular fabric. In this paper, we present an algorithm for estimating the parameters of a cloth simulation from video data of real

fabric. A perceptually motivated metric based on matching between folds is used to compare video of real cloth with simulation. This metric compares two video sequences of cloth and returns a number that measures the differences in their fo ...

8 Analysis methodology: Rare event simulation and combinatorial optimization using cross entropy: estimating buffer overflows in three stages using cross-entropy

P. T. de Boer, D. P. Kroese, R. Y. Rubinstein

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(185.52 KB) Additional Information: full citation, abstract, references, citings

In this paper we propose a fast adaptive Importance Sampling method for the efficient simulation of buffer overflow probabilities in queueing networks. The method comprises three stages. First we estimate the minimum Cross-Entropy tilting parameter for a small buffer level; next, we use this as a starting value for the estimation of the optimal tilting parameter for the actual (large) buffer level; finally, the tilting parameter just found is used to estimate the overflow probability of inter ...

9 Optimization in simulation: a survey of recent results

Marc S. Meketon

December 1987 **Proceedings of the 19th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(902.02 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper surveys existing methods, and presents several new ideas, for optimizing performance measures with respect to input parameters for simulation. The usual methods fall into three categories. First, there is the application of traditional non-linear programming techniques, regardless of the stochastic properties of most discrete event simulations. Second, is the application of response surface methodologies. Third, are stochastic approximation techniques, a well known but little use ...

10 Single run optimization of a SIMAN model for closed loop flexible assembly systems

Rajan Suri, Ying Tat Leung

December 1987 **Proceedings of the 19th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(808.56 KB) Additional Information: full citation, abstract, references, citings, index terms

We are interested in maximizing the throughput of a closed loop flexible assembly system by distributing the total cycle time across workstations in an optimal way. The algorithm we present optimizes the system in a single simulation run and is a multi-dimensional extension of the single run optimization algorithm proposed recently. A complete implementation, of both the assembly system simulation and the algorithm, is given in the SIMAN language. Numerical examples show that the algorithm ...

11 Analysis methodology: Rare event simulation and combinatorial optimization using cross entropy: estimation of rare event probabilities using cross-entropy

Tito Homem-de-Mello, Reuven Y. Rubinstein

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(201.37 KB) Additional Information: full citation, abstract, references

This paper deals with estimation of probabilities of rare events in static simulation models using a fast adaptive two-stage procedure based on importance sampling and Kullback-

Liebler's cross-entropy (CE). More specifically, at the first stage we estimate the optimal parameter vector in the importance sampling distribution using CE, and at the second stage we estimate the desired rare event probability using importance sampling (likelihood ratios). Some theoretical aspects of the proposed me ...

12 A tutorial on simulation optimization

Farhad Azadivar
December 1992 **Proceedings of the 24th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(680.50 KB) Additional Information: full citation, references, citings, index terms

13 Advanced tutorials: Simulation optimization: a survey of simulation optimization techniques and procedures

James R. Swisher, Paul D. Hyden, Sheldon H. Jacobson, Lee W. Schruben
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(233.66 KB) Additional Information: full citation, abstract, references, citings

Discrete-event simulation optimization is a problem of significant interest to practitioners interested in extracting useful information about an actual (or yet to be designed) system that can be modeled using discrete-event simulation. This paper presents a brief survey of the literature on discrete-event simulation optimization over the past decade (1988 to the present). Swisher et al. (2000) provides a more comprehensive review of this topic while Jacobson and Schruben (1989) covers the liter ...

14 Introductory tutorials: Simulation optimization

Michael C. Fu
December 2001 **Proceedings of the 33nd conference on Winter simulation**
Publisher: IEEE Computer Society
Full text available: pdf(143.59 KB) Additional Information: full citation, abstract, references, citings, index terms

In this tutorial introduction to simulation optimization, we present motivating and illustrative examples, summarize most of the major approaches, and briefly describe some software implementations. The focus is on issues and concepts, rather than mathematical rigor, so the format is Q & A rather than theorem-proof.

15 Adaptive multivariate three-timescale stochastic approximation algorithms for simulation based optimization

Shalabh Bhatnagar
January 2005 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 15 Issue 1
Publisher: ACM Press
Full text available: pdf(258.84 KB) Additional Information: full citation, abstract, references, index terms

We develop in this article, four adaptive three-timescale stochastic approximation algorithms for simulation optimization that estimate both the gradient and Hessian of average cost at each update epoch. These algorithms use four, three, two, and one simulation(s), respectively, and update the values of the decision variable and Hessian matrix components simultaneously, with estimates based on the simultaneous perturbation methodology. Our algorithms use coupled stochastic recursions that procee ...

Keywords: Adaptive three-timescale stochastic approximation algorithms, Newton-type

algorithms, simulation optimization, simultaneous perturbation stochastic approximation

16 System-level power estimation and optimization

Luca Benini, Robin Hodgson, Polly Siegel

August 1998 **Proceedings of the 1998 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available: pdf(878.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Most work to date on power reduction has focused at the component level, not at the system level. In this paper, we propose a framework for describing the power behavior of system-level designs. The model consists of a set of resources, an environmental workload specification, and a power management policy, which serves as the heart of the system model. We map this model to a simulation-based framework to obtain an estimate of the system's power dissipation. Accompanying th ...

17 Simulation optimization: methods and applications

Yolanda Carson, Anu Maria

December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, references, citings, index terms

18 Floorplanning: Floorplanning optimization with trajectory piecewise-linear model for pipelined interconnects

Changbo Long, Lucanus J. Simonson, Weiping Liao, Lei He

June 2004 **Proceedings of the 41st annual conference on Design automation**

Publisher: ACM Press

Full text available: pdf(111.71 KB) Additional Information: full citation, abstract, references, index terms

Interconnect pipelining has a great impact on system performance, but has not been considered by automatic floorplanning. Consid-ering interconnect pipelining, we study the floorplanning optimiza-tion problem to minimize system CPI (cycles per instruction) and in turn maximize system performance. We develop an efficient table-based model called trajectory piece-wise linear (TPWL) model to estimate CPI with interconnect pipelining. Experiments show that the TPWL model differs from cycle-accurate ...

Keywords: floorplanning, interconnect, performance, piecewise-linear, pipeline

19 Analysis methodology I: Low cost response surface methods for and from simulation optimization

Theodore Allen, Liyang Yu

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(323.44 KB) Additional Information: full citation, abstract, references, citings

We propose "low cost response surface methods" (LCRSM) that typically require half the experimental runs of standard response surface methods based on central composite and Box Behnken designs but yield comparable or lower modeling errors under realistic assumptions. In addition, the LCRSM methods have substantially lower modeling errors and greater expected savings compared with alternatives with comparable numbers of runs, including small composite designs and computer-generated designs based ...

20 Effects of delay models on peak power estimation of VLSI sequential circuits

Michael S. Hsiao, Elizabeth M. Rudnick, Janak H. Patel

November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: pdf(265.62 KB) Publisher Site

Additional Information: full citation, abstract, references, citings, index terms

Previous work has shown that maximum switching density at a given node is extremely sensitive to a slight change in the delay at that node. However, when estimating the peak power for the entire circuit, the powers estimated must not be as sensitive to a slight variation or inaccuracy in the assumed gate delays because computing the exact gate delays for every gate in the circuit during simulation is expensive. Thus, we would like to use the simplest delay model possible to reduce the execution ...

Keywords: peak power, variable delay, sustainable power, n-cycle power, genetic optimization

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21 Simulation optimization using response surfaces based on spline approximations

Andrew F. Daughety, Mark A. Turnquist
September 1978 **ACM SIGSIM Simulation Digest**, Volume 10 Issue 1-2
Publisher: ACM Press
Full text available: pdf(992.19 KB) Additional Information: full citation, abstract, references

This paper presents an approach designed to increase the efficiency and utility of search for optima of simulation models. Specifically, spline functions (odd-order polynomials fitted between simulation run outputs that match curvature at the end points) are used to approximate the simulation along suitably chosen directions of search. The splines are used to generate "pseudo-experiments" which enrich the data base formed from actual simulation runs. An overall (grand) function is then fit to th ...

22 Simulation optimization using response surfaces based on spline approximations

Andrew F. Daughety, Mark A. Turnquist
January 1978 **Proceedings of the 10th conference on Winter simulation - Volume 1**
Publisher: IEEE Press
Full text available: pdf(977.81 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an approach designed to increase the efficiency and utility of search for optima of simulation models. Specifically, spline functions (odd-order polynomials fitted between simulation run outputs that match curvature at the end points) are used to approximate the simulation along suitably chosen directions of search. The splines are used to generate "pseudo-experiments" which enrich the data base formed from actual simulation runs. An overall (grand) function ...

23 Statistical optimization of dynamic importance sampling parameters for efficient simulation of communication networks

Michael Devetsikiotis, J. Keith Townsend
June 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 3
Publisher: IEEE Press
Full text available: pdf(1.61 MB) Additional Information: full citation, references, citings, index terms

24 Multicriteria optimization of simulation models

Gerald W. Evans, Bruce Stuckman, Mansooreh Mollaghasemi
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Publisher: IEEE Computer Society
Full text available: pdf(667.16 KB) Additional Information: full citation, references, citings, index terms

Keywords: decision analysis, goal programming, multiattribute utility theory, multicriteria optimization

25 Decision optimization for GASP IV simulation models
Claude Dennis Pegden, Michael P. Gately
December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1**
Publisher: Winter Simulation Conference
Full text available: pdf(457.41 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an optimization module which can be added to the GASP IV software package to provide automated optimization of a set of user defined decision variables. The optimization procedure is a variation of the Hooke-Jeeves pattern search and can be used for decision optimization in discrete, continuous, and combined simulation models. The application of the optimization module is illustrated with two examples.

26 Use of both optimization and simulation models to analyze complex systems
Dean H. Kropp, Robert C. Carlson, James V. Jucker
January 1978 **Proceedings of the 10th conference on Winter simulation - Volume 1**
Publisher: IEEE Press
Full text available: pdf(690.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent work dealing with planning of complex facilities has proposed use of a recursive optimization-simulation approach. This technique takes advantage of the best features of both methods while minimizing the disadvantages of each method used alone. Here a mixed integer program generates staffing and facility plans and a simulation model evaluates their day-to-day acceptability. Then a linear regression uses the simulation results to generate non-cost constraints to be added to the optimi ...

27 A compilation-based software estimation scheme for hardware/software co-simulation
Marcello Lajolo, Mihai Lazarescu, Alberto Sangiovanni-Vincentelli
March 1999 **Proceedings of the seventh international workshop on Hardware/software codesign**
Publisher: ACM Press
Full text available: pdf(437.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: compilation, delay modeling, software estimation

28 Efficient and accurate cost models for parallel query optimization (extended abstract)
Sumit Ganguly, Akshay Goel, Avi Silberschatz
June 1996 **Proceedings of the fifteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Publisher: ACM Press

Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings, index terms

29 A combined procedure for optimization via simulation

Juta Pichitlamken, Barry L. Nelson

April 2003 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(681.77 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose an optimization-via-simulation algorithm for use when the performance measure is estimated via a stochastic, discrete-event simulation, and the decision variables may be subject to deterministic linear integer constraints. Our approach---which consists of a global guidance system, a selection-of-the-best procedure, and local improvement---is globally convergent under very mild conditions.

Keywords: Random search, ranking and selection, stochastic optimization

30 System-level power estimation and optimization: A power estimation methodology for systemC transaction level models

Nagu Dhanwada, Ing-Chao Lin, Vijay Narayanan

September 2005 **Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis CODES+ISSS '05**

Publisher: ACM Press

Full text available: pdf(266.54 KB) Additional Information: full citation, abstract, references, index terms

Majority of existing works on system level power estimation have focused on the processor, while there are very few that address power consumption of peripherals in a SoC. With the presence of complex cores in current day embedded system-on-chip devices, the problem of complete system level power estimation is gaining significance. Transaction level models for SoCs are gaining increasing attention with emerging architectural modeling standards like SystemC. In this paper we present a methodology ...

Keywords: CoreConnect, PowerPC, power analysis, systemC, transaction level models

31 Fast simulation of rare events in queueing and reliability models

Philip Heidelberger

January 1995 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(3.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper surveys efficient techniques for estimating, via simulation, the probabilities of certain rare events in queueing and reliability models. The rare events of interest are long waiting times or buffer overflows in queueing systems, and system failure events in reliability models of highly dependable computing systems. The general approach to speeding up such simulations is to accelerate the occurrence of the rare events by using importance sampling. In importance sampling, the syst ...

Keywords: importance sampling, queueing models, rare event, reliability models, variance reduction

32 Modeling methodology a: Virtual worlds: simulation based optimization in fishery management

Farhad Azadivar, Tu Truong, Kevin D. E. Stokesbury, Brian J. Rothschild

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(528.76 KB) Additional Information: full citation, abstract, references

The sea scallop resource of Georges Bank supports one of the largest commercial fisheries in the United States. The objective of this research was to develop a technique to examine different management strategies for the sea scallop resource of Georges Bank and compare these strategies to the optimal. A simulation model followed the sea scallop population dynamics using information from recent photographic surveys and studies on spatial and temporal life history parameters, such as growth, na ...

33 Advanced tutorials: A framework for Response Surface Methodology for simulation optimization

H. Gonda Neddermeijer, Gerrit J. van Oortmarssen, Nanda Piersma, Rommert Dekker

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(92.44 KB) Additional Information: full citation, abstract, references, citings

We develop a framework for automated optimization of stochastic simulation models using Response Surface Methodology. The framework is especially intended for simulation models where the calculation of the corresponding stochastic response function is very expensive or time-consuming. Response Surface Methodology is frequently used for the optimization of stochastic simulation models in a non-automated fashion. In scientific applications there is a clear need for a standardized algorithm based o ...

34 Simulation, mathematical modeling and optimization in industrial design: When and how to apply it?

R. F. Garzia, P. H. Schmidt, M. R. Garzia

January 1980 **Proceedings of the 12th conference on Winter simulation**

Publisher: IEEE Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

With the current technology, optimization has become a feasible and profitable avenue for problem solving in industrial design. This in turn brings simulation and modeling into the design process in order to obtain a mathematical description of the process in question. This paper addresses the problem of "When and How to Apply Optimization in Industrial Design?". In addition, it reviews the most common optimization algorithms and how they should be selected. Furthermore, some of ...

35 Analysis methodology II: Simulation optimization: multi-response simulation optimization using stochastic genetic search within a goal programming framework

Felipe F. Baesler, José A. Sepúlveda

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(255.04 KB) Additional Information: full citation, abstract, references, citings

This study presents a new approach to solve multi-response simulation optimization problems. This approach integrates a simulation model with a genetic algorithm heuristic and a goal programming model. The genetic algorithm technique offers a very flexible and reliable tool able to search for a solution within a global context. This method was modified to perform the search considering the mean and the variance of the responses. In this

way, the search is performed stochastically, and not determ ...

36 Importance sampling for the estimation of buffer overflow probabilities via trace-driven simulations

Ioannis Ch. Paschalidis, Spyridon Vassilaras

October 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5

Publisher: IEEE Press

Full text available: pdf(547.31 KB) Additional Information: full citation, abstract, references, index terms

We develop an importance sampling technique that can be used to speed up the simulation of a model of a buffered communication multiplexer fed by a large number of independent sources. The sources generate traffic according to a periodic function with a random phase. This traffic model accommodates a wide range of situations of practical interest, including ON-OFF periodic traffic models and sequences of bit rates generated by actual Variable Bit Rate sources, such as MPEG video compressors. ...

Keywords: MPEG traces, importance sampling, large deviations, simulation, statistical multiplexing, variance reduction

37 Modeling methodology a: Optimization and response surfaces: an optimization-based multi-resolution simulation methodology

Darren T. Drewry, Paul F. Reynolds, William R. Emanuel

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(249.88 KB) Additional Information: full citation, abstract, references

The need for new approaches to the consistent simulation of related phenomena at multiple levels of resolution is great. While many fields of application would benefit from a complete and approachable solution to this problem, such solutions have proven extremely difficult. We present a multi-resolution simulation methodology which uses numerical optimization as a tool for maintaining external consistency between models of the same phenomena operating at different levels of temporal and/or sp ...

38 Sensitivity analysis and optimization in simulation: design of experiments and case studies

Jack P. C. Kleijnen

December 1995 **Proceedings of the 27th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(750.93 KB) Additional Information: full citation, references, citings, index terms

39 Semiconductor manufacturing: Modeling methodology: new approaches for simulation of wafer fabrication: the use of control variates and calibration metrics

Chanettre Rasmidatta, Shari Murray, John W. Fowler, Gerald T. Mackulak

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(211.87 KB) Additional Information: full citation, abstract, references

Simulation-based wafer fabrication optimization models require extensive computational time to obtain accurate estimates of output parameters. This research seeks to develop goal-driven optimization methodologies for a variety of semiconductor manufacturing problems using appropriate combinations of "resource-driven" (R-D), "job-driven" (J-D),

and Mixed (combination of R-D and J-D) models to reduce simulation run times. The initial phase of this research investigates two issues: a) the use of ...

40 Performance evaluation: Modeling and optimization of non-blocking checkpointing for optimistic simulation on myrinet clusters

Francesco Quaglia, Andrea Santoro

June 2003 **Proceedings of the 17th annual international conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(253.35 KB) Additional Information: full citation, abstract, references, index terms

Checkpointing and Communication Library (CCL) is a recently developed software implementing CPU offloaded checkpointing functionalities in support of optimistic parallel simulation on myrinet clusters. Specifically, CCL implements a *non-blocking* execution mode of memory-to-memory data copy associated with checkpoint operations, based on data transfer capabilities provided by a programmable DMA engine on board of myrinet network cards. Re-synchronization between CPU and DMA activities must ...

Keywords: DMA, checkpointing, optimistic simulation, performance optimization

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41 Constrained GA applied to production and energy management of a pulp and paper mill
Amâncio Santos, António Dourado
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(863.76 KB) Additional Information: full citation, references, index terms

Keywords: genetic algorithms, multi-objective mathematical programming, production scheduling

42 Manufacturing applications: Simulation of manufacturing operations: optimization of buffer sizes in assembly systems using intelligent techniques
Fulya Altiparmak, Berna Dengiz, Akif A. Bulgak
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**
Publisher: Winter Simulation Conference
Full text available: pdf(206.57 KB) Additional Information: full citation, abstract, references, citings

When the systems under investigation are complex, the analytical solutions to these systems become impossible. Because of the complex stochastic characteristics of the systems, simulation can be used as an analysis tool to predict the performance of an existing system or a design tool to test new systems under varying circumstances. However, simulation is extremely time consuming for most problems of practical interest. As a result, it is impractical to perform any parametric study of system ...

43 A tutorial review of techniques for simulation optimization
Michael C. Fu
December 1994 **Proceedings of the 26th conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(865.84 KB) Additional Information: full citation, references, citings, index terms

44 Finite-time behavior of two simulation optimization algorithms

Ying Tat Leung, Rajan Suri
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(518.79 KB) Additional Information: full citation, references, citings, index terms

45 Optimization of simulation responses in a multicomputing environment
William E. Biles, H. Tamer Ozmen
December 1987 **Proceedings of the 19th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(651.23 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the application of experimental design techniques to computer simulation in a multicomputing environment. Three principal areas of experimental design are considered: (1) factor screening experiments; (2) experiments of comparison; and (3) response surface methodology.

46 Full-Chip Interconnect Power Estimation and Simulation Considering Concurrent Repeater and Flip-Flop Insertion
Weiping Liao, Lei He
November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society
Full text available: pdf(242.69 KB) Additional Information: full citation, abstract, index terms

In this paper, we study the full-chip interconnect power modeling.We show that repeater insertion is no longer sufficient toachieve the target frequencies specified by ITRS, and develop concurrentrepeater and FF insertion schemes. Considering structuralinterconnects, layer assignment and concurrent repeater andFF insertion for delay specification, we develop a cycle-accuratemicroarchitecture-level interconnect power simulation. The simulationreduces the over-estimation by up to 2:46X compared to ...

47 Parallelizing a new class of large applications over high-speed networks
H. T. Kung, Peter Steenkiste, Marco Gubitoso, Manpreet Khaira
April 1991 **ACM SIGPLAN Notices , Proceedings of the third ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP '91**, Volume 26 Issue 7
Publisher: ACM Press
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48 Simulation optimization of air traffic delay cost
Nathan L. Kleinman, Stacy D. Hill, Victor A. Ilenda
December 1998 **Proceedings of the 30th conference on Winter simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(53.22 KB) Additional Information: full citation, references, citings, index terms

49 Optimization of simulation experiments
R. E. Taylor, J. W. Schmidt, V. Chachra
January 1973 **Proceedings of the 6th conference on Winter simulation**
Publisher: ACM Press

Full text available: pdf(793.95 KB) Additional Information: full citation, abstract, references, index terms

The basic objectives of this paper are two-fold. The first objective is to illustrate the use of three multivariable optimization techniques as they are applied in an interactive fashion to the optimization of simulation experiments. The second and more important objective is to present the rationale behind the termination criterion for simulation experiments which is applicable to virtually any multivariable optimization procedure. The termination criterion is statistically based and inclu ...

50 Leakage estimation: Leakage power modeling and optimization in interconnection networks

Xuning Chen, Li-Shiuan Peh

August 2003 **Proceedings of the 2003 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available: pdf(231.53 KB) Additional Information: full citation, abstract, references, citings, index terms

Power will be the key limiter to system scalability as interconnection networks take up an increasingly significant portion of system power. In this paper, we propose an architectural leakage power modeling methodology that achieves 95-98% accuracy against HSPICE estimates. When applied to interconnection networks, combined with previous proposed dynamic power models, we gain valuable insights on total network power consumption. Our modeling shows router buffers to be a prime candidate for leaka ...

Keywords: interconnection networks, leakage power, power optimization

51 Recursive optimization-simulation modeling for the analysis of ambulatory health care facilities

Dean H. Kropp, John C. Hershey

July 1979 **ACM SIGSIM Simulation Digest**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(397.33 KB) Additional Information: full citation, abstract, references

The overall planning problem of an ambulatory health care facility is often attacked using either linear programming or simulation models. This paper discusses each method and then describes a third method -- recursive modeling -- which capitalizes on the advantages and minimizes the disadvantages of the other two methods. Methods of variance reduction and data analysis are also discussed.

52 Optimization of a corn-processing simulation model

David Humphrey, Julius Chu

December 1992 **Proceedings of the 24th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(624.41 KB) Additional Information: full citation, references, index terms

53 Transportation, logistics, and distribution: Airline and airport applications: simulation optimization of airline delay with constraints

David W. Hutchison, Stacy D. Hill

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available: pdf(215.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Air traffic delay is a growing and expensive problem. We investigated ways to reduce the cost and magnitude of such delays by trading gate delays against more expensive air delays. Air management and planning at this level can be facilitated by simulation, especially for strategies that alter controls on the system. We used the SIMMOD air traffic simulation to model the system. The objective was to determine a set of control measures that achieve the best system performance subject to restrictio ...

54 Introductory tutorials: Simulation-based optimization: practical introduction to simulation optimization

Jay April, Fred Glover, James P. Kelly, Manuel Laguna

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available: pdf(384.39 KB) Additional Information: full citation, abstract, references

The merging of optimization and simulation technologies has seen a rapid growth in recent years. A Google search on "Simulation Optimization" returns more than six thousand pages where this phrase appears. The content of these pages ranges from articles, conference presentations and books to software, sponsored work and consultancy. This is an area that has sparked as much interest in the academic world as in practical settings. In this paper, we first summarize some of the most relevant appr ...

55 Run-time modeling and estimation of operating system power consumption

Tao Li, Lizy Kurian John

June 2003 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '03**, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(233.33 KB) Additional Information: full citation, abstract, references, citings, index terms

The increasing constraints on power consumption in many computing systems point to the need for power modeling and estimation for all components of a system. The Operating System (OS) constitutes a major software component and dissipates a significant portion of total power in many modern application executions. Therefore, modeling OS power is imperative for accurate software power evaluation, as well as power management (e.g. dynamic thermal control and equal energy scheduling) in the light of ...

Keywords: low power, operating system, power estimation

56 Analysis methodology: Recent advances in simulation optimization: response surface methodology revisited

Ebru Angün, Jack P. C. Kleijnen, Dick Den Hertog, Gül Gürkan

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available: pdf(252.39 KB) Additional Information: full citation, abstract, references

Response Surface Methodology (RSM) searches for the input combination that optimizes the simulation output. RSM treats the simulation model as a black box. Moreover, this paper assumes that simulation requires much computer time. In the first stages of its search, RSM locally fits first-order polynomials. Next, classic RSM uses steepest descent (SD); unfortunately, SD is scale dependent. Therefore, Part 1 of this paper derives scale independent 'adapted' SD (ASD) accounting for covariances be ...

57 Five-stage procedure for the evaluation of simulation models through statistical

techniques
Jack P. C. Kleijnen
November 1996 **Proceedings of the 28th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(705.37 KB) Additional Information: full citation, references, citings

58 Analysis methodology II: A practical approach to sample-path simulation optimization
Michael C. Ferris, Todd S. Munson, Krung Sinapiromsaran
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(110.24 KB) Additional Information: full citation, abstract, references

We propose solving continuous parametric simulation optimizations using a deterministic nonlinear optimization algorithm and sample-path simulations. The optimization problem is written in a modeling language with a simulation module accessed with an external function call. Since we allow no changes to the simulation code at all, we propose using a quadratic approximation of the simulation function to obtain derivatives. Results on three different queueing models are presented that show our meth ...

59 Estimation of time-varying parameters in statistical models: an optimization approach
Dimitris Bertsimas, David Gamarnik, John N. Tsitsiklis
July 1997 **Proceedings of the tenth annual conference on Computational learning theory**
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, references, citings, index terms

60 Discrete-event simulation optimization using ranking, selection, and multiple comparison procedures: A survey
James R. Swisher, Sheldon H. Jacobson, Enver Yücesan
April 2003 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(187.81 KB) Additional Information: full citation, abstract, references, index terms

An important use for discrete-event simulation models lies in comparing and contrasting competing design alternatives without incurring any physical costs. This article presents a survey of the literature for two widely used classes of statistical methods for selecting the best design from among a finite set of *k* alternatives: ranking and selection (R&S) and multiple comparison procedures (MCPs). A comprehensive survey of each topic is presented along with a summary of recent unified R&S- ...

Keywords: Simulation optimization, multiple comparisons, ranking and selection

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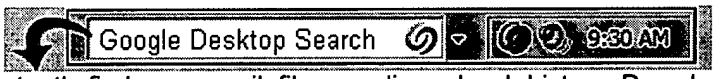
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